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Java GET POWERED.

DD1391 Processor System PC-Applications

The Case for Java

Presented by

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Questions/Issues

- How do we meet the Army's requirements of having web based applications for ISCE, ECONPACK, PC-Cost and PAXPublisher?
- How do we support PAX and non-PAX users with the same code set?
- How do we eliminate the need for 'Administrative' rights every time our users install software updates on their PC?
- How do we get updates to PAX Users?
- How do we do all this and still keep the same functionality in the applications our users rely on?

The **ANSWER** is.....

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The Case for Java

- The business rules, application logic, and visual display of ECONPACK, ISCE, PC-Cost and PAXPublisher require a complete GUI and programming language.
- The Simplified Method in DD1391, CA1391, and ENG3086 is currently built upon Java (precedent)
- Java is Open Source by SUN
- SUN JVM Plugin free download (popular)
- SUN Open Sources NETBEANS IDE (development tool)

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Java Features

- Applet runs in browser and on a local machine
- Complete Programming Language (unlike JavaScript)
- With the introduction of Sun Plugin, the Swing Library is easily accessible for elaborate GUI components (i.e. spreadsheets, tabbed panels, tree panels, image display, etc.)
- Component framework called Java Beans similar to Active-X Controls without the security risk
- Vast library of Open Source in the areas of XML, PDF, etc.
- Java implements JDBC for Database connectivity and WebFOCUS calls are now available
- JavaDoc – Generate HTML documentation from Java source code
- Java Accessibility (Section 508 Compliance)
- Updates are distributed in a single JAR file (binary,data,XML)

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Java Features

- Updates are instantaneous for web users
- NETBEANS IDE: Open Source Development tool that allows for fast coding and debugging
- Resource Editor allows developer to drag n drop components
- PVCS tracker built into IDE for Version Control
- WebFOCUS Support (API, Web Services)

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Who uses JAVA?

- PAX – The Simplified Method (DD1391, CA1391, and ENG3086) and Assistance tables (Installation, Category Code)
- USACE P2 Program
- US Army Logistics
- Game Makers
- NASA – Mars Rover
- DoD Smart Cards
- Cell Phones and Appliance Makers

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Who uses JAVA?

Addison Wesley/Prentice Hall PTR
Agitar Software
Altova, Inc.
ARM
Attachmate Corporation
axalto
BEA Systems, Inc.
Borland
Business Objects (Crystal Reports)
Canon USA, Inc.
Canoo Engineering AG
Catalyst Systems Corporation
Compuware Corporation
Curitel Communications
DataDirect Technologies
eBay
Embarcadero Technologies
Enerjy
eNGENUITY Technologies
Ensemble Systems Inc.
Ephox
Ericsson AB
ESRI
Exadel, Inc.
Excelsior, LLC
FiveSight Technologies
Gemplus
Gentleware AG
Giesecke & Devrient GmbH
GigaSpaces Technologies
GlooLabs, Inc.
Motorola
Nexaweb
No Magic, Inc.
Nokia
NSTL, Inc.
Oak Grove Systems
ObjectFX Corporation
ObjectWeb
OneEighty Software Ltd.
ontometrics
OpenLogic, Inc.
OpenWave
Oracle Corporation
Orange
Parasoft Corporation
Phaos Technology
Plumtree Software
PointBase
Pramati Technologies
Quest Software
Recursion Software, Inc.
RefactorIT
Research In Motion
Ricoh Corporation
SAGEM
SAP
SeeBeyond
SEGA Mobile & NOKIA
Siemens AG
Simplica Corporation
Skyway Software, Inc.
Gluecode Software
Handango
HP
IBM Corporation
ICEsoft Technologies
Identify
ILOG
InetSoft Technology
InferData
InstallShield Software
Inter Systems Caché
Intersperse, Inc.
Intrinsyc Software Inc.
IONA Technologies
iTKO Inc.
iWay Software
JBoss Inc.
JetBrains, Inc.
Jinfonet Software, Inc.
JNetDirect
Kinzan
Kumaran Systems, Inc.
M7 Corporation
Macromedia
Mainsoft Corporation
MAKE Technologies
SlickEdit Inc.
Snowbound Software
Software FX, Inc.
SolarMetric
Sonic Software
Sony Ericsson
Sun Microsystems, Inc.
Sybase Inc.
SyncOBS, Inc.
Tangosol, Inc.
Tmax Soft, Inc.
Trifork A/S
Unisys Corporation
Validy
VERITAS Software
Versant Corporation
Versata, Inc.
VisiComp, Inc.
Wily Technology
Xythos Software

Source: JavaOne (Sun Microsystems)

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Advantages of using Java

- Meets Army requirements of having web based applications.
- One set of code is used for both PC based and web based Java applications. The same application can be run in a web browser (Internet Explorer) and on the desktop. This meets the requirements of our PAX and non-PAX users worldwide.
- Java only requires the Sun Plug-in which most users will already have because of P2 and other Java based programs. Application updates will not require Administrative Privileges as required by the current PC-Application updates.
- Updates can be automatically downloaded from the web and our current distribution media (CD-ROM) can be used for distribution at training courses and for those users without internet access.
- Java is extremely portable.
- WebFOCUS has Application Program Interface (API) calls available from within Java. WebFOCUS web services can be created and called from Java for specific functions.
- iWay Adapters are available from IBI

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Any Questions or Comments